


# Compu-DAWN, Inc.

**Data  
Access &  
Wireless  
Network**



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# **Compu-DAWN**

Software Solutions  
for Public Safety.

A Fully Integrated  
Information Management System.



# Our Mission

■ To be the premier provider of Software Solutions and Communications Technology for Public Safety.

- ◆ Law Enforcement
- ◆ Fire
- ◆ EMS



# **The U.S. Market**

- The U.S. Market 21,860 police departments
- 35,690 fire departments
- All EMS and other public safety agencies

**Fewer than 20% are computerized**



# High Tech Cops

**Bringing the resources of headquarters to patrol cars**

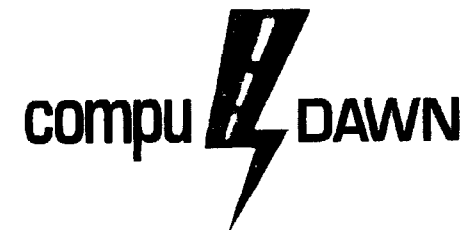
Computer and Software Technology

+ Wireless Communication

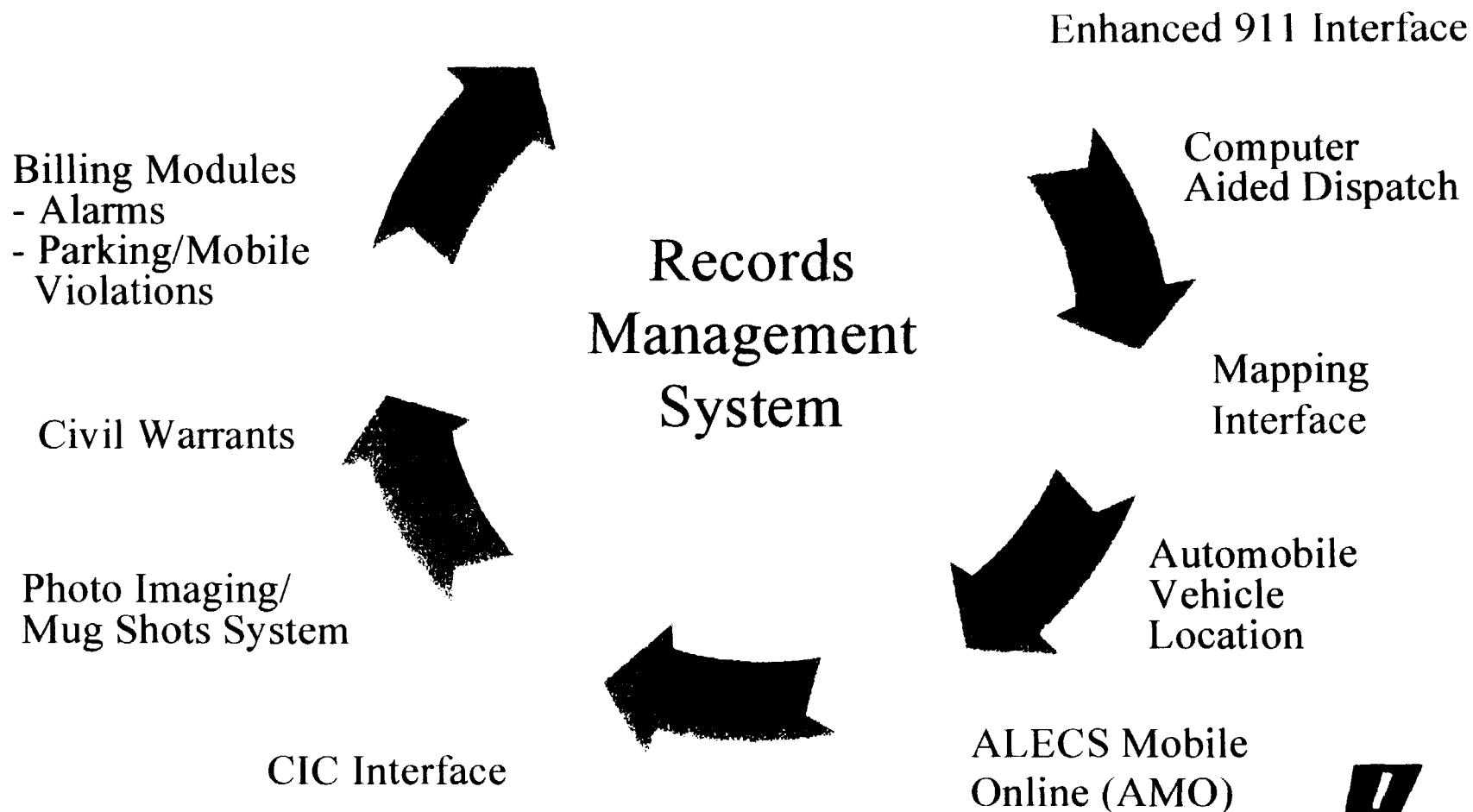
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= **Reduced Crime**

Source: Mobile Officer - July 1995

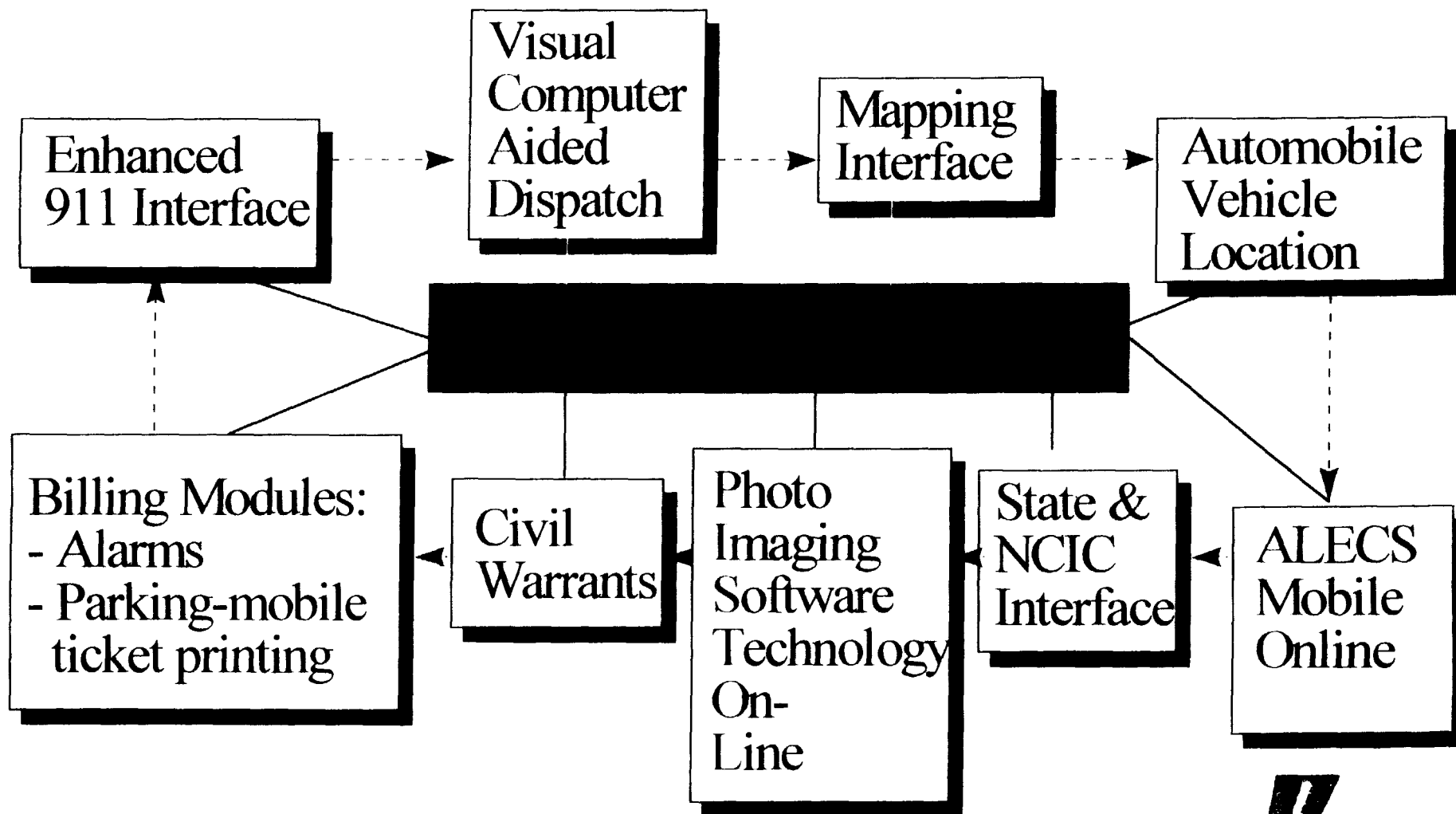


# ALECS 2000 Modules



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# ALECS 2000™ Modules



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# ALECS 2000™

Advanced Law Enforcement Computer Solutions



- State-of-the-art software solutions designed for public safety
- 14+ modules
- All modules interface with existing systems.
- Modules can be combined to form fully integrated solutions.

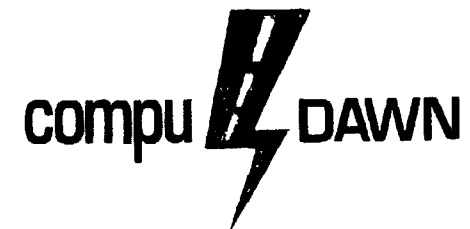
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# ARMS

## Advanced Records Management System

- Organizes, processes and retrieves data in *real-time*.
- Provides information to field personnel so they can make informed decisions and quick responses.
- Information includes: person's history, location history, warrants, hazards, firearm permits, orders of protection, alarm/emergency contacts, property registration, etc.



# E-911 Interface

- Imports caller's name, number and location data from the telephone company.
- Retrieves any historical information on the caller or the location.
- Increased accuracy, decreased key strokes, decreased response time and increased safety.



# **VCAD**

## **Visual Computer Aided Dispatch**

- Identifies available units.
- Assists the dispatcher in assigning resources promptly.
- Obtains information from database.
- Provides the nearest cross streets, hydrant locations, etc.
- Date/time/event numbers automatically stamped.
- Checks hazard, warrant, firearm permit, alarm, order of protection and history from databases.
- Gives call back number.
- Touch screen, full color and user friendly.



# V-CAD

## Visual Computer Aided Dispatch

Compu DAWN V-CAD System 2

File Options Help

FR01  
AVAL  
13:55

FR02  
AVAL  
13:55

FR03  
AVAL  
13:55

EMS1  
AVAL  
13:55

101  
AVAL  
02:19

102  
AVAL  
21:40

103  
AVAL  
19:41

104  
AVAL  
13:55

201  
AVAL  
13:55

202  
AVAL  
13:55

203  
AVAL  
13:55

FR01  
DNAK  
23:41

FR01  
DISP  
22:15

102  
ARRV  
02:08

102  
DNAK  
01:41

102  
DNAK  
20:24

103  
RESP  
01:28

102  
DNAK  
01:41

ENG1  
STAR  
02:41

Unit	Status	Elps Time	Priority	Type	Event #	
FR01	DISP	22:15	5	DISTURBANCE\HOU	96-000401	COAS
102	DNAK	20:24	1	ROBBERY\	97-000017	FLOW
FR01	DNAK	23:41	1	ROBBERY\	97-000017	FLOW
203	DNAK	20:47	5	DISTURBANCE\HOU	96-000401	COAS
102	ARRV	02:08	5	DISTURBANCE\HOU	96-000401	COAS
ENG1	STAR	02:41	5	DISTURBANCE\FBI	96-000403	
AMB1	LVHS	02:40	5	DISTURBANCE\HOU	96-000401	COAS

Event #

Elps Time

Priority

Type

Location

96-000404	01:11	1	ASSAULT\	COASTAL COMPUTER SY
97-000015	21:42	1	BURGLARY\	

Selected Event#

96-000403

Command















Label1

# VCAD

## Visual Computer Aided Dispatch

Comp: DAWN VCAD System 7

Tools

 <b>K101</b> AVAL 13:28	 <b>K102</b> AVAL 13:28	 <b>11</b> AVAL 13:28	 <b>13</b> AVAL 13:28	 <b>31</b> AVAL 13:28	 <b>32</b> AVAL 13:28	 <b>12</b> AVAL 13:28	 <b>13</b> AVAL 13:28
 <b>K103</b> AVAL 13:28		 <b>17</b> AVAL 13:28	 <b>26</b> AVAL 13:28	 <b>33</b> AVAL 13:28	 <b>3161</b> AVAL 13:28	 <b>60</b> AVAL 13:28	

**NEW NEW**

Event #	Date 11/18/96	Time 1328	How Received: E911
Location TOM'S BAKERY			Cross Street:
Address: 44	Street: FIRST STREET	Apt Number:	Post:
City, Town, Village: CARMEL		Agency: CARM	Plate # State:
Event Type for Police E911		Priority	<input type="checkbox"/> Police <input type="checkbox"/> Fire <input type="checkbox"/> EMS
Desc: For Police Type:			
Name JOEL SMITH		Role CALLER	
Address 44	Street FIRST STREET	Apt #	AC 914
City, Town, Village CARMEL		Phone 432-7096	State NY

Command

PrePlan Units Warnings Notes History GeoInfo

File	Hold	E911_1
Cancel	Mail	Pv E911_2

# Mapping Interface

- VCAD automatically displays location of event and available units.
- Provides quicker and more effective resource deployment.
- The dispatcher can ***zoom*** the map to give greater details to responding units.
- Locations of various past events can be displayed providing crime analysis.



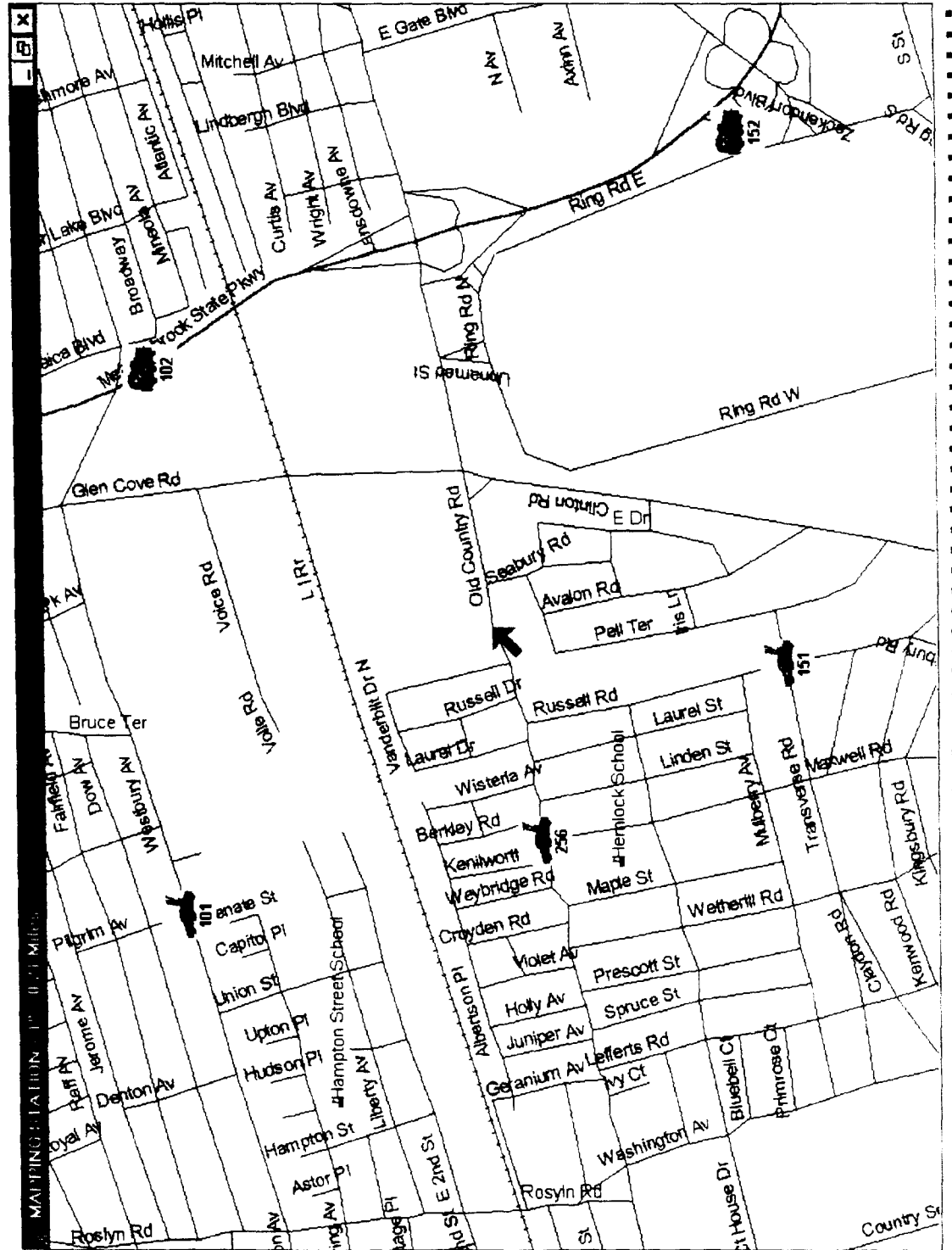
# AVL

## Automatic Vehicle Location

- Automatically transmits location of vehicles and event to headquarters where they are tracked visually.
- Gives management and dispatchers easy visual representation.
- Provides real-time response of vehicles to an event.
- Increases officer safety and productivity.
- Provides management with enhanced supervisory capabilities.



# Automatic Vehicle Location





# AMO

## ALECS Mobile On-line

### A Virtual Office in the Car

- All files can be accessed and updated mobile.
- Messages and replies are transmitted as data; provides security and privacy.
- Text to speech and voice recognition commands.
- Photo imaging/mug shot of persons can be transmitted individually or broadcast for rapid distribution.
- DMV, state accident and incident reports can be completed and filed from the field.
- Increased officer safety and time in the field.



# Local, State & NCIC Interface

- Interface to crime information databases from all workstations.
- Users are provided menu options for various inquiries: driver's information, criminal history, etc.
- Delivers responses to an AMO laptop, no need for dispatcher intervention, thus providing faster response to in-field requests.
- Frees dispatcher's time, while simultaneously giving Police Officer important information.
- Increases traffic summonses and arrests.



# PISTOL

## Photo Imaging Software Technology On-Line



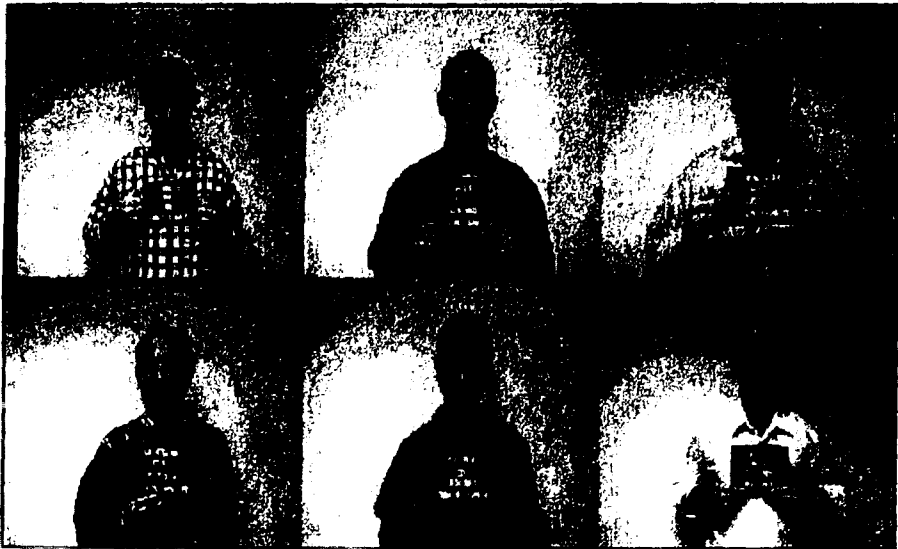
- Enables capturing images of prisoners, property, accident and crime scenes, etc. and links them instantly to the ALECS database.
- Utilizing AMO, photos can be transmitted to the laptop computer for identification, searches, etc.
- Photos relating to a specific event can be linked, retrieved, or printed on demand, with field notes attached.
- Searches for match and physical characteristics.
- Automatic photo arrays.
- Decreases crime/impersonation and false I.D. utilization.

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# PISTOL

## Photo Imaging Software Technology On-Line

View Line Up



Date: 01/10/97 Time: 1644  
Location: COMPU DAWN POLICE

General Line Up #: 51

Case #: 96-00001

LineUp # in the case  
7

Print

Load

Refile

Exit

Information

Comments

# Civil Warrants

- Fully integrated with ARMS™.
- Provides listing of warrants by name or number.
- Alerts officer if a person has an outstanding warrant.
- Provides accuracy and saves time resulting in increased revenues.



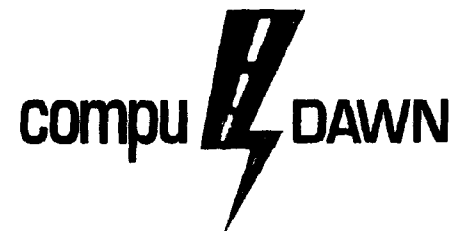
# Billing Modules

## False Alarm

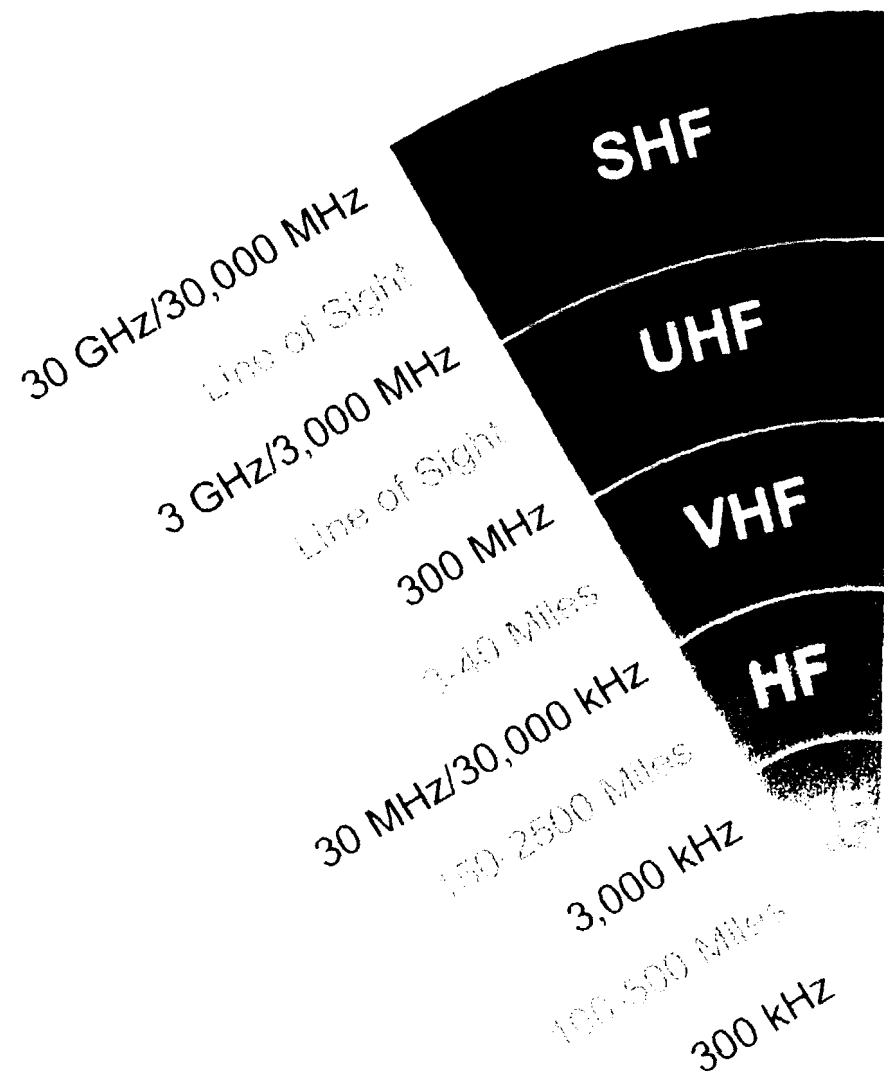
- Automates the billing process for false alarms.

## Parking/Traffic Violations

- Integrated with the persons file by name and license number.
- Payments and balances are maintained.
- Dunning and scofflaw letters are created.
- Information can be transmitted to the state DMV.
- Increases efficiency and revenue for municipality.



# Typical Users of the Spectrum



Satellite Systems (500 MHz)  
Radars (10- 30 MHz)

Channel 20 506-512 (6 MHz; 6000 kHz)  
Taxi (25 kHz)

Channel 5 72-86 (6MHz;6000 kHz)  
Police, Fire, Ambulance Radio (20 kHz)

Citizens Band Radio (10 kHz)

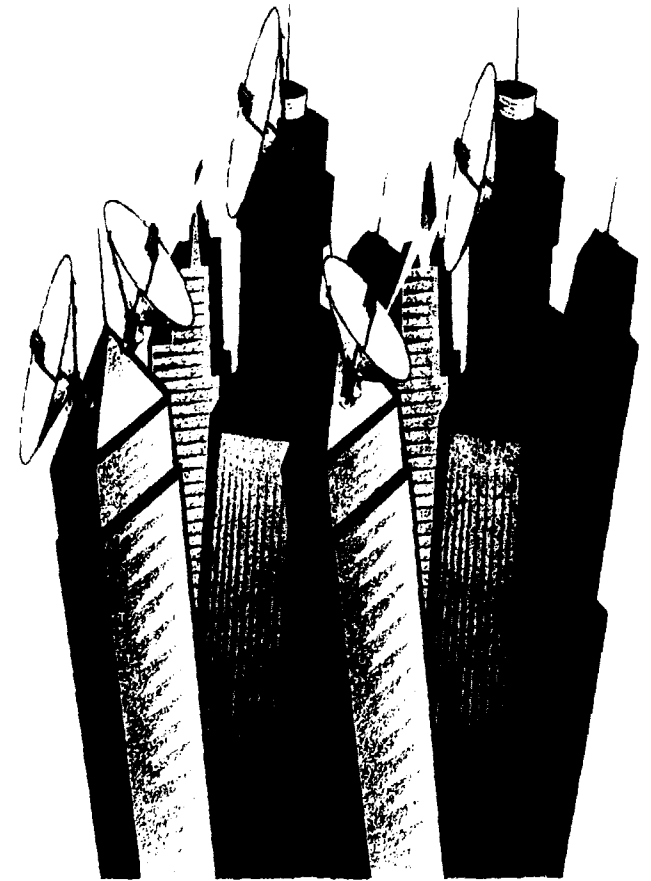
Voice Radio (3kHz)

Commercial Broadcast Band (540 - 1600 kHz)

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# Spectrum Congestion Analysis

- ◆ Most Existing Public Safety bands congested; Communication bands are the most cluttered.
- ◆ More requests in the Public Safety bands.
- ◆ Spectrum Congestion causes huge coordination problem.
- ◆ Problems are compounded by sharing within same bands.





# Airwaves for Public Safety

FREQUENCY 100 hertz 10,000 1 MHz  $10^2$  MHz  $10^4$  MHz  $10^6$  MHz  $10^8$  MHz  $10^{10}$  MHz  $10^{12}$  MHz  $10^{14}$  MHz  $10^{16}$  MHz

BAND

USE

Alternating Current

AM Radio

Heat Lamps

Sun Lamps

VHF Television  
channels 2-6

FM radio  
stations

VHF Television channels 7-13

UHF television frequencies

FREQUENCY 25 MHz 100 200 300 400 500 600 700 800 900

BAND

NON-  
FEDERAL  
PUBLIC  
SAFETY  
CHANNELS

**25-50 MHz**  
Includes 315 channels for wide area coverage, mostly by state highway patrols.

**156-174 MHz**  
The first public safety frequencies were allocated here; includes 242 channels.

**220-222 MHz**  
10 channels recently allocated, but little suitable equipment is available.

**470-512 MHz**  
Some unused TV channels are available.

**450-470 MHz**  
74 Channels.

**806-821 MHz and  
851-866 MHz**  
70 Channels.

**821-824 MHz and  
866-869 MHz**  
230 Channels allocated in 1987.